



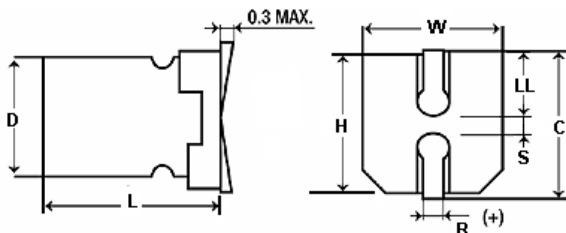
FEATURES

Small size – Non/Bi-polar

APPLICATIONS

Bypass – Coupling – Filtering

Operating Temperature Range		-40°C to +85°C								
Capacitance Tolerance		+20% at 120 Hz, 20°C								
Surge voltage	WVDC	6.3	10	16	25	35	50			
	SVDC	7.9	13	20	32	44	63			
Dissipation Factor	WVDC	6.3	10	16	25	35	50			
	tan δ	.24	.2	.18	.18	.14	.14			
Leakage current		2 Minutes								
		.03CV +6uA								
Low temperature stability Impedance ratio (120 Hz)	Rated WVDC	6.3	10	16	25	35	50			
	-25°C to +20°C	4	3	2	2	2	2			
	-40°C to +20°C	8	6	4	4	3	3			
Load Life		2000 hours at 85°C with rated WVDC and ripple current applied. Polarity reversed every 250 hours								
		Capacitance change		≤20% of initial measured value						
		Dissipation factor		≤200% of maximum specified value						
		Leakage current		≤100% of maximum specified value						
Shelf Life		1000 hours at 85°C with no voltage applied								
		Capacitance change		≤20% of initial measured value						
		Dissipation factor		≤200% of maximum specified value						
		Leakage current		≤100% of maximum specified value						
Resistance to soldering heat		Capacitors placed on a 250C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature								
		Capacitance change		≤10% of initial measured value						
		Dissipation factor		≤100% of maximum specified value						
		Leakage current		≤100% of maximum specified value						
Ripple Current Multipliers		Frequency (Hz)					Temperature (°C)			
		50	120	400	1k	10k	100k	85	70	65
		0.8	1.0	1.0	1.1	1.3	1.5	1.0	1.35	1.35



D±0.5	L	W±0.2	H±0.2	C±0.2	R	S±0.2	S±0.2
4	5.4 0.1/-0.2	4.3	4.3	5	0.5~0.8	1.8	1.0
5	5.4 0.1/-0.2	5.3	5.3	6	0.5~0.8	2.1	1.4
6.3	5.4 0.1/-0.2	6.6	6.6	7	0.5~0.8	2.4	2.2

NPS

+85°C, Bi-Polar 1000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
0.1	50	104NPS050M	2321.01	1	4x5.4
0.22	50	224NPS050M	1055	2.3	4x5.4
0.33	50	334NPS050M	703.34	3.5	4x5.4
0.47	50	474NPS050M	493.83	5	4x5.4
1	50	105NPS050M	232.1	10	4x5.4
2.2	50	225NPS050M	105.5	15	5x5.4
2.2	35	225NPS035M	105.5	8.4	4x5.4
3.3	50	335NPS050M	70.33	18	5x5.4
4.7	50	475NPS050M	49.38	23	6.3x5.4
4.7	35	475NPS035M	49.38	23	5x5.4
4.7	16	475NPS016M	63.49	12	4x5.4
10	35	106NPS035M	23.21	30	6.3x5.4
10	10	106NPS010M	33.157	17	4x5.4
10	16	106NPS016M	29.842	25	5x5.4
22	16	226NPS016M	13.564	39	6.3x5.4
22	6.3	226NPS6R3M	18.086	31	5x5.4
33	16	336NPS016M	9.043	57	6.3x5.4
47	6.3	476NPS6R3M	8.466	47	6.3x5.4